



IPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent application

of _____ Inventor(s) _____

for _____ Title of invention _____

OR

In re application of: Larry S. Eoff, et al

Application No.: 0 10 / 763,800

Group Art Unit:

Filed: 01/24/2004

Examiner:

For: Methods and Compositions for the Diversion of Aqueous Injection Fluids
in Injection Operations

Mail Stop Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
WITHIN THREE MONTHS OF FILING OR
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. § 1.97(b))**

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37 C.F.R. § 1.10 *

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* Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(f). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.8(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

NOTE: 37 C.F.R. 1.98(b):

- (1) Each U.S. patent listed in an information disclosure statement must be identified by inventor, patent number, and issue date.
- (2) Each U.S. patent application publication listed in an information disclosure statement shall be identified by applicant, patent application publication number, and publication date.
- (3) Each U.S. application listed in an information disclosure statement must be identified by the inventor, application number, and filing date.
- (4) Each foreign patent or published foreign patent application listed in an information disclosure statement must be identified by the country or patent office which issued the patent or published the application, an appropriate document number, and the publication date indicated on the patent or published application.
- (5) Each publication listed in an information disclosure statement must be identified by publisher, author (if any), title, relevant pages of the publication, date, and place of publication.

WARNING: No extension of time can be had under 37 C.F.R. § 1.138 (a) or (b) for filing an IDS. 37 C.F.R. § 1.97(f).

NOTE: The "filing date of a national application" under 37 C.F.R. § 1.97(b) has two possible meanings. Where the filing is a direct one to the United States Patent & Trademark Office, the filing is defined in 37 C.F.R. § 1.53(b) as "the date on which: (1) A specification containing a description pursuant to § 1.71 and at least one claim pursuant to § 1.75; and (2) any drawing required by § 1.81(a), are filed in the Patent and Trademark Office in the name of the actual inventor or inventors as required by § 1.41." 37 C.F.R. § 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. § 371(c) within the periods set forth in § 1.494 or § 1.495. 35 U.S.C. § 371(c) requires the filing of the following: (1) the basic national fee; (2) a copy of the international application, unless already sent by the International Bureau, and optionally an English translation if filed in another language; and, also optionally (3) amendments under PCT Article 18, with a translation into English if made in another language; (4) an oath or declaration; and (5) a translation into English of any annexes to the International preliminary examination report, if such annexes were made in another language. The optional items must be submitted later, with surcharges. 37 C.F.R. § 1.97(b)(2).

IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. § 1.97(b).

NOTE: "No certification or fee is due when the filing is made within the above time period. It is advisable to ensure that no Office action has been mailed if the disclosure statement is delayed until after three months from filing."

NOTE: "An information disclosure statement will be considered to have been filed on the day it was received in the Office, or on an earlier date of a mailing if accompanied by a properly executed certificate of mailing under 37 C.F.R. 1.8, or Express Mail certificate under 37 C.F.R. 1.10. An Office action is mailed on the date indicated in the Office action." Notice of April 20, 1992 (1138 O.G. 37-41, 39). See also § 608, M.P.E.P., 8th Edition.

NOTE: "The term 'national application' includes continuing applications (continuations, divisions, continuations-in-part) so three-months will be measured from the actual filing date of an application as opposed [sic] to the effective date of a continuing application." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action [8-3]—page 2 of 3)

NOTE: "An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirements (37 C.F.R. 1.142) or just a requirement for additional fees to have a claim considered (37 C.F.R. 1.16(d)). Thus, if an application was filed on Jan. 1 and the first Office action on the merits was not mailed until six months later on July 1, the examiner would be required to consider any proper information disclosure statement filed prior to July 1." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

WARNING: "A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 C.F.R. § 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner." Notice of July 6, 1992 (1141 O.G. 63). But see § 103(b) and (c), limited suspension of action in a continued prosecution application (CPA) filed under § 1.53(d) and in a request for continued examination (RCE) under § 1.114.



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(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action [8-3]—page 3 of 3)



PATENT 2003-IP-009464U1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Larry S. Eoff, et al)
Serial No.: 10/763,800) Art Unit: Unknown
Filed: 01/24/2004) Examiner: Unknown
For: Methods and Compositions for the)
Diversion of Aqueous Injection)
Fluids in Injection Operations)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

COMMISSIONER FOR PATENTS
Alexandria, VA 22313-1450

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

U. S. PATENTS

U.S. Patent Number 2,863,832 issued 12/09/58 to Richard L. Perrine;

U.S. Patent Number 2,910,436 issued 10/27/59 to Irving Fatt, et al;

U.S. Patent Number 3,215,199 issued 11/02/65 to Richard E. Dilgren;

U.S. Patent Number 3,251,415 issued 05/17/66 to Caurino C. Bombardieri, et al;

U.S. Patent Number 3,297,090 issued 01/10/67 to Richard E. Dilgren;

U.S. Patent Number 3,307,630 issued 03/07/67 to Richard E. Dilgren, et al;

U.S. Patent Number 3,382,924 issued 05/14/68 to Carl D. Veley, et al;

U.S. Patent Number 3,434,971 issued 03/25/69 to Bobby L. Atkins;

U.S. Patent Number 3,441,085 issued 04/29/69 to John L. Gidley;

U.S. Patent Number 3,451,818 issued 06/24/69 to Richard R. Wareham;

U.S. Patent Number 3,910,862 issued 10/07/75 to Eugene S. Barabas, et al;

U.S. Patent Number 4,129,183 issued 12/12/78 to George Kalfoglou;

U.S. Patent Number 4,158,521 issued 06/19/79 to Robert W. Anderson, et al;

U.S. Patent Number 4,299,710 issued 11/10/81 to Jean Dupre, et al;

U.S. Patent Number 4,366,071 issued 12/28/82 to Homer C. McLaughlin, et al;

U.S. Patent Number 4,366,072 issued 12/28/82 to Homer C. McLaughlin, et al;

U.S. Patent Number 4,366,073 issued 12/28/82 to Homer C. McLaughlin, et al;

U.S. Patent Number 4,366,074 issued 12/28/82 to Homer C. McLaughlin, et al;

U.S. Patent Number 4,374,739 issued 02/22/83 to Homer C. McLaughlin, et al;

U.S. Patent Number 4,393,939 issued 07/19/83 to Charles W. Smith, et al;

U.S. Patent Number 4,395,340 issued 07/26/83 to Homer C. McLaughlin;

U.S. Patent Number 4,439,334 issued 03/27/84 to John K. Borchardt;

U.S. Patent Number 4,440,649 issued 04/03/84 to Royal E. Loftin, et al;

U.S. Patent Number 4,447,342 issued 05/08/84 to John K. Borchardt, et al;

U.S. Patent Number 4,460,627 issued 07/17/84 to Jimmie D. Weaver, et al;

U.S. Patent Number 4,462,718 issued 07/31/84 to Homer C. McLaughlin, et al;

U.S. Patent Number 4,536,297 issued 08/20/85 to Royal E. Loftin, et al;

U.S. Patent Number 4,536,305 issued 08/20/85 to John K. Borchardt, et al;

U.S. Patent Number 4,554,081 issued 11/19/85 to John K. Borchardt, et al;

U.S. Patent Number 4,563,292 issued 01/07/86 to John K. Borchardt, et al;

U.S. Patent Number 4,604,216 issued 08/05/86 to Howard B. Irvin, et al;

U.S. Patent Number 4,627,926 issued 12/09/86 to Dennis G. Peiffer, et al;

U.S. Patent Number 4,693,639 issued 09/15/87 to Keith H. Hollenbeak, et al;

U.S. Patent Number 4,699,722 issued 10/13/87 to Brian Dymond, et al;

U.S. Patent Number 4,730,028 issued 03/08/88 to Jan Bock, et al;

U.S. Patent Number 4,828,726 issued 05/09/89 to Ronald E. Himes, et al;

U.S. Patent Number 4,959,432 issued 09/25/90 to You-Ling Fan, et al;

U.S. Patent Number 5,071,934 issued 12/10/91 to Dennis G. Peiffer;

U.S. Patent Number 5,097,904 issued 03/24/92 to Ronald E. Himes;

U.S. Patent Number 5,146,986 issued 09/15/92 to E. Dwyann Dalrymple;

U.S. Patent Number 5,160,642 issued 11/03/92 to John A. Schield, et al;

U.S. Patent Number 5,197,544 issued 03/30/93 to Ronald E. Himes;

U.S. Patent Number 5,208,216 issued 05/04/93 to C. Darwin Williamson, et al;

U.S. Patent Number 5,244,042 issued 09/14/93 to Hoai T. Dovan, et al;

U.S. Patent Number 5,271,466 issued 12/21/93 to Weldon M. Harms;

U.S. Patent Number 5,342,530 issued 08/30/94 to Carl W. Aften, et al;

U.S. Patent Number 5,379,841 issued 01/10/95 to Günter Pusch, et al;

U.S. Patent Number 5,607,902 issued 03/04/97 to Kevin W. Smith, et al;

U.S. Patent Number 5,669,456 issued 09/23/97 to Annie Audibert, et al;

U.S. Patent Number 5,735,349 issued 04/07/98 to Jeffrey C. Dawson, et al;

U.S. Patent Number 5,887,653 issued 03/30/99 to L. W. Bishop, et al;

U.S. Patent Number 5,979,557 issued 11/09/99 to Roger J. Card, et al;

U.S. Patent Number 6,187,839 B1 issued 02/13/01 to Larry Eoff, et al;

U.S. Patent Number 6,228,812 B1 issued 05/08/01 to Jeffrey C. Dawson, et al;

U.S. Patent Number 6,237,687 B1 issued 05/29/01 to John Phillip Barbee, Jr., et al;

U.S. Patent Number 6,253,851 B1 issued 07/03/01 to Donald E. Schroeder, Jr., et al;

U.S. Patent Number 6,277,900 B1 issued 08/21/01 to Reinhard Oswald, et al;

U.S. Patent Number 6,283,210 B1 issued 09/04/01 to Mohamed Yousef Soliman, et al;

U.S. Patent Number 6,364,016 B1 issued 04/02/02 to Eldon D. Dalrymple, et al;

U.S. Patent Number 6,380,137 B1 issued 04/30/02 to Karl Heinz Heier, et al, (US English Equivalent of European Patent 1 033 378 A1, published 09/06/00);

U.S. Patent Number 6,476,283 B1 issued 11/05/02 to David D. Devore, et al;

U.S. Patent Number 6,497,283 B1 issued 12/24/02 to Larry S. Eoff, et al;

U.S. Patent Number 6,516,885 B1 issued 02/11/03 to Keith Munday;

U.S. Patent Number 6,609,578 B2 issued 08/26/03 to Arvind D. Patel, et al;

U.S. Patent Number 6,710,107 B2 issued 03/23/04 to Annie Audibert, et al;

U.S. Patent Application Publication Number 2003/0019627 A1 published

01/30/03 by Qi Qu, et al;

U.S. Patent Application Publication Number 2004/0102331 A1 published

05/27/04 by Keng Seng Chan, et al; and

U.S. Patent Application Publication Number 2004/0229757 A1 published

11/18/04 by Larry S. Eoff, et al (S/N 10/760,443, Ref. No. 2001-IP-005267U1P1, filed 01/20/04).

FOREIGN PATENTS

German Patent Number DT 2 250 552 published 04/18/74 by Eugene Sigmund Barabas, et al;

European Patent Number 0 383 337 A2 published 08/22/90 by Naim Abdul-Kader Mumallah;

European Patent Number 0 896 122 A2 published 02/10/99 by Eldon D. Dalrymple, et al (including A3);

European Patent Number 1 033 378 A1 – See Equivalent English Translation U.S. Patent Number 6,380,137 B1;

European Patent Number 1 193 365 A1 published 04/03/02 by Larry S. Eoff, et al;

European Patent Number 1 312 753 A1 published 05/21/03 by George J. Hirasaki, et al;

UK Patent Application Number GB 2 221 940 A published 02/21/90 by James V. Fisk, Jr.;

Int'l Publication Number WO 93/15164 – See Equivalent English Translation

U.S. Patent Number 5,972,848;

Int'l Publication Number WO 99/49183 published 09/30/99 by Timothy Gareth John Jones, et al;

Int'l Publication Number WO 99/50530 published 10/07/99 by Stephen Nigel Davies, et al; and

Int'l Publication Number WO 02/097236 A1 published 12/05/02 by Luisa Chiappa, et al.

PAPERS/OTHER

Relative Permeability Modifiers: Myth or Reality?, SPE eLibrary Paper No. 68973, 2001, Society of Petroleum Engineers, Inc., presented at SPE European Formation Damage Conference, The Hague, The Netherlands, May 21-22, pp. 1-2, printed from website @ <http://speonline.spe.org/cgi-bin/viewpaper.cgi?paper=00068973.pdf> by C. Wouter Botermans, et al;

Structure and Process Optimization for the Use of a Polymeric Relative-Permeability Modifier in Conformance Control, SPE eLibrary Paper No. 64985, 2001, Society of Petroleum Engineers, Inc., presented at SPE International Symposium on Oilfield Chemistry, Houston, TX, February 13-16, pp. 1-2, printed from website @ <http://speonline.spe.org/cgi-bin/viewpaper.cgi?paper=00064985.pdf> by Larry Eoff, et al;

Numerical Study of Water Coning Control with Downhole Water Sink (DWS) Well

Completions in Vertical and Horizontal Wells, A Dissertation, August 2002, Title Page, Contents, Abstract and pp. 17-18, Submitted to the Graduate Faculty of the Louisiana State University and Agricultural and Mechanical College, The Department of Petroleum Engineering by Solomon Ovuerayen Inikori;

Controlling Formation Damage Using Clay Stabilizers: A Review, Paper 95-71, The Petroleum Society of CIM, 1995, presented at the 46th Annual Technical Meeting of the Petroleum Society of CIM in Banff, Alberta, Canada, May 14-17 by Z. J. Zhou, et al;

Halliburton Technology Uses Revolutionary Polymer System to Control Unwanted Water Production, Halliburton, 2001 Press Releases, 2002, pp. 1-2, printed from website @

www.halliburton.com/news/archive/2001/esgnws_053101.jsp?printMe by Halliburton;

First Halliburton H2ZeroTM Conformance Solution Job Performed for a Producing Well in Egypt, Halliburton, 2001 Press Releases, 2002, pp. 1-2, printed from website @ www.halliburton.com/news/archive/2001/esgnws_111901.jsp by Halliburton;

Halliburton Performs First H2ZeroTM Conformance Solution Job in North America, Halliburton, 2001 Press Releases, 2002, pp. 1-2, printed from website @ www.halliburton.com/news/archive/2001/esgnws_082201.jsp by Halliburton;

Aquacon, Product Information, 08/01/01, pp. 1-2 by BJ Services Company; and

Aquatrol I, Product Information, 12/14/00, pp. 1-2 by BJ Services Company.

Copies of the aforementioned non-patent references and Form PTO-1449
are submitted herewith.

Respectfully submitted,



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PTO-1449

APR 15 2005

Information Disclosure Citation in an Application

Application No.
10/763,800Docket Number
2003-IP-009464U1

Applicant(s)

Larry S. Eoff, et al

Group Art Unit

Filing Date
01/24/2004

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	ISSUE/PUB. DATE	NAME	CLASS	SUBCLASS	FILING DATE
	2,863,832	12/09/58	Perrine	252	8.55	05/14/54
	2,910,436	10/27/59	Fatt, et al	252	8.55	10/02/53
	3,215,199	11/02/65	Dilgren	166	38	02/21/63
	3,251,415	05/17/66	Bombardieri, et al	166	42	04/01/65
	3,297,090	10/10/67	Dilgren	166	38	04/24/64
	3,307,630	03/07/67	Dilgren, et al	166	38	06/12/64
	3,382,924	05/14/68	Veley, et al	166	42	09/06/66
	3,434,971	03/25/69	Atkins	252	8.55	08/25/65
	3,441,085	04/29/69	Gidley	166	307	09/07/67
	3,451,818	06/24/69	Wareham	96	78	04/19/66
	3,910,862	10/07/75	Barabas, et al	260	79.3MU	08/27/73
	4,129,183	12/12/78	Kalfoglou	166	300	06/30/77
	4,158,521	06/19/79	Anderson, et al	405	264	06/26/78
	4,299,710	11/10/81	Dupre, et al	252	8.5A	05/30/75
	4,366,071	12/28/82	McLaughlin, et al	252	8.55R	02/04/80
	4,366,072	12/28/82	McLaughlin, et al	252	8.55R	02/04/80
	4,366,073	12/28/82	McLaughlin, et al	252	8.55R	02/04/80
	4,366,074	12/28/82	McLaughlin, et al	252	8.55R	02/04/80
	4,374,739	02/22/83	McLaughlin, et al	252	8.55R	02/04/80
	4,393,939	07/19/83	Smith, et al	166	293	04/20/81
	4,395,340	07/26/83	McLaughlin	252	8.55D	07/14/81
	4,439,334	03/27/84	Borchardt	252	8.55D	07/14/81
	4,440,649	04/03/84	Loftin, et al	252	8.5C	01/28/82
	4,447,342	05/08/84	Borchardt, et al	252	8.55D	04/19/82
	4,460,627	07/17/84	Weaver, et al	427	212	08/25/82
	4,462,718	07/31/84	McLaughlin, et al	405	264	05/04/78

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449 Information Disclosure Citation in an Application	Application No. 10/763,800	Applicant(s) Larry S. Eoff, et al		
	Docket Number 2003-IP-009464U1	Group Art Unit	Filing Date 01/24/2004	

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	ISSUE/PUB. DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,536,297	08/20/85	Loftin, et al	252	8.5C	01/19/84
	4,536,305	08/20/85	Borchardt, et al	252	8.55R	09/21/84
	4,554,081	11/19/85	Borchardt, et al	252	8.5A	05/21/84
	4,563,292	01/07/86	Borchardt	252	8.55R	08/02/84
	4,604,216	08/05/86	Irvin, et al	252	8.510	06/11/84
	4,627,926	12/09/86	Peiffer, et al	252	8.55R	09/19/84
	4,693,639	09/15/87	Hollenbeak, et al	405	263	06/25/86
	4,699,722	10/13/87	Dymond, et al	252	8.551	05/23/85
	4,730,028	03/08/88	Bock, et al	526	225	03/28/86
	4,828,726	05/09/89	Himes, et al	252	8.553	09/11/87
	4,959,432	09/25/90	Fan, et al	526	287	07/18/88
	5,071,934	12/10/91	Peiffer	526	307	07/03/89
	5,097,904	03/24/92	Himes	166	294	02/28/91
	5,146,986	09/15/92	Dalrymple	166	294	12/11/91
	5,160,642	11/03/92	Schield, et al	252	8.551	05/25/90
	5,197,544	03/30/93	Himes	166	294	12/18/91
	5,208,216	05/04/93	Williamson, et al	507	120	06/30/92
	5,244,042	09/14/93	Dovan, et al	166	270	02/26/92
	5,271,466	12/21/93	Harms	166	300	10/30/92
	5,342,530	08/30/94	Aften, et al	252	8.551	05/04/92
	5,379,841	01/10/95	Pusch, et al	166	295	04/12/93
	5,607,902	03/04/97	Smith, et al	507	120	03/04/96
	5,669,456	09/23/97	Audibert, et al	175	72	07/01/96
	5,735,349	04/07/98	Dawson, et al	166	295	08/16/96
	5,887,653	03/30/99	Bishop, et al	166	281	08/15/97

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449 Information Disclosure Citation in an Application	Application No. 10/763,800	Applicant(s) Larry S. Eoff, et al
	Docket Number 2003-IP-009464U1	Group Art Unit

U.S. PATENT DOCUMENTS

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